

Appl. No. 09/759,672
Amdt. Dated September 20, 2004
Reply to Office action of June 18, 2004
Attorney Docket No. P12540-US1
EUS/JJP/04-2118

Amendments to the Specification:

1.) Please replace the paragraph beginning at page 3, line 6, with the following rewritten paragraph:

In further embodiments of the present invention, the quantum values are updated by calculating the total reserved quantum value for the update period based on a minimum reserved quantum value of each of the plurality of queues and updating the quantum values of each of the plurality of queues by an update quantum value. The update quantum value for each of the plurality of queues may be zero when the available quantum value is less than or equal to zero. The update quantum value may also ~~comprise~~ the minimum reserved quantum value for the update period increased by an excess quantum value for the update period when the available quantum value is larger than the total reserved quantum value. The update quantum value may further be the minimum reserved quantum value for the update period decreased by a deficit quantum value for the update period when the total reserved quantum value is larger than the available quantum value.

2.) Please replace the paragraph beginning at page 10, line 22 with the following rewritten paragraph:

The sum of the deficit counter and the update quantum value is then compared to the maximum possible value of the deficit counter for this queue (DC.Max.QoS) (block 440). If this sum is less than the DC.Max.QoS then the deficit counter for this queue is set equal to DC.QoS increased by the Update Quantum Value.QoS (block 460). If this sum is greater than the DC.Max.QoS then the deficit counter for this queue is set equal to the DC.Max.QoS (block ~~[[350]]~~ 450).

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3.) Please replace the paragraph beginning at page 13, line 16 with the following rewritten paragraph:

Referring again to FIG. 6, the update quantum value is set equal to the sum of the excess quantum value and the minimum reserved quantum value (block 630). This update quantum value may be used as the update quantum value discussed above with reference to FIG. 4 (blocks 440 and 460). The quantum value of the queue with QoS=0 is set equal to the update quantum value (block 640). QoS is set equal to QoS+1 (block 650). It is determined if QoS is less than 3 (block 660). If QoS is less than 3, operations return to block [[600]] 610 and the process repeats for QoS=QoS+1 because the update round is not complete. If QoS is not less than 3, operations return to block 600 which sets the QoS back to zero and begins a new update round when the update_interval is complete.

4.) Please replace the paragraph beginning at page 14, line 8 with the following rewritten paragraph:

The update quantum value is set equal to the minimum reserved quantum value decreased by the deficit quantum value (block 730). This update quantum value may be used as the update quantum value discussed above with reference to FIG. 4 (blocks 440 and 460). The quantum value for queue with QoS=0 is set equal to the update quantum value (block 740). Then QoS is set equal to QoS+1 (block 750). It is determined if QoS is less than 3 (block 760). If QoS is less than 3, operations return to block [[700]] 710 and the process repeats for QoS=QoS+1 because the update round is not complete. If QoS is not less than 3, operations return to block 700 which sets the QoS back to zero and begins a new update round when the update_interval is complete.